

What is claimed is:

1. A base station transmission power control method comprising the steps of:
 - 3 setting a first expected value of a first block error rate representing predetermined reception quality in a potable terminal apparatus;
 - 6 measuring a second block error rate in the potable terminal apparatus with a second count smaller than a first count which is an execution count of error detection processing required to measure the first block error rate; and
 - 11 controlling transmission power of a base station from the potable terminal apparatus on the basis of the measured second block error rate.
2. A method according to claim 1, wherein the step of controlling comprises the step of performing base station transmission power control based on the second block error rate with a transmission power increase/decrease width smaller than a transmission power increase/decrease width required for base station transmission power control based on the first block error rate.
3. A method according to claim 1, wherein the step of controlling comprises the steps

3 of:
4 determining whether the second block error
5 rate exceeds a second expected value set in advance;
6 increasing the base station transmission power
7 with the first step width when the second block error
8 rate exceeds the second expected value; and
9 decreasing the base station transmission power
10 with the second step width when the second block error
11 rate is not more than the second expected value.

4. A method according to claim 3, wherein
2 the step of decreasing the power comprises the
3 steps of:
4 when the second block error rate is not more
5 than the second expected value, determining whether
6 there is an error in the second count;
7 when an error exists, determining whether a
8 third block error rate obtained from a total count of
9 second counts repeatedly obtained until now is not more
10 than a third expected value set in advance; and
11 when the third block error rate is not more
12 than the third expected value, decreasing the base
13 station transmission power with the second step width.

5. A method according to claim 4, further
2 comprising the step of, when no error exists in the
3 second count and the third block error rate exceeds the

20100707-13424553

4 third expected value, stopping power down control on the
5 base station transmission power.

6. A method according to claim 4, wherein the
2 third expected value is set to be not less than the
3 first expected value, and the second expected value is
4 set to be larger than the third expected value.

7. A base station transmission power control
2 apparatus comprising:
3 storage means which is mounted in a potable
4 terminal apparatus and stores a first expected value of
5 a first block error rate representing predetermined
6 reception quality in advance;
7 measuring means for measuring a second block
8 error rate with a second count smaller than a first
9 count which is an execution count of error detection
10 processing required to measure the first block error
11 rate; and
12 power control means for controlling
13 transmission power of a base station on the basis of the
14 second block error rate output from said measuring means.

8. An apparatus according to claim 7, wherein
2 said power control means performs base station
3 transmission power control based on the second block
4 error rate with a transmission power increase/decrease

5 width smaller than a transmission power
6 increase/decrease width required for base station
7 transmission power control based on the first block
8 error rate.

9. An apparatus according to claim 7, wherein
2 said apparatus further comprises determination
3 means for determining whether the second block error
4 rate exceeds a second expected value set in advance, and
5 said power control means
6 increases the base station transmission power
7 with the first step width when the second block error
8 rate exceeds the second expected value, and
9 decreases the base station transmission power
10 with the second step width when the second block error
11 rate is not more than the second expected value.

10. An apparatus according to claim 9, wherein
2 said determination means
3 determines whether there is an error in the
4 second count, when the second block error rate is not
5 more than the second expected value, and
6 determines whether a third block error rate
7 obtained from a total count of second counts repeatedly
8 obtained until now is not more than a third expected
9 value set in advance, when an error exists, and
10 said power control means decreases the base

PROVISIONAL PATENT APPLICATION

11 station transmission power with the second step width,
12 when the third block error rate is not more than the
13 third expected value.

11. An apparatus according to claim 9, wherein
2 said power control means stops power down control on the
3 base station transmission power, when no error exists in
4 the second count and the third block error rate exceeds
5 the third expected value.

12. An apparatus according to claim 7, wherein the
2 third expected value is set to be not less than the
3 first expected value, and the second expected value is
4 set to be larger than the third expected value.